

1. A pushdown piston engine system, comprising:
 - a. A push step (11) connecting to pistons (9) which in turn rotate crankshaft (5) through connect hands (6);
 - b. A gear transmission assembly with a flywheel (1) to ensure one direction rotation of the gears;
 - c. Upper and lower stoppers (7 and 8) to set crankshaft rotating range.
2. A pushdown piston engine system in claim 1, wherein said push step (11) connecting to the upper part of piston (9) can rotate with limited angles on top of the said piston
3. A pushdown piston engine system in claim 1, wherein said gear transmission assembly uses flywheel (1) to connect to crankshaft ensuring only one direction of rotation is allowed.
4. A pushdown piston engine system in claim 1, wherein said gear transmission assembly use gear (3) to connect to crankshaft as shown in figure 6.
5. A pushdown piston engine system in claim 1, wherein said upper and lower stoppers (7 and 8), mounted in crankshaft housing (14), are used to limit the rotation of the crankshaft in selected range.
6. A weight powered roller skate assembly comprising:
 - a. A pushdown piston engine system in claim 1
 - b. Two wheels attached to pushdown piston engine system in claim 1 through wheel driving gear (4) and bearings (12) as shown in figure 3
7. A weight powered roller blade assembly comprising:
 - a. A pushdown piston engine system in claim 1
 - b. A single wheel attached to pushdown piston engine system in claim 1 through wheel driving gear (4) and bearings (12) as shown in figure 4
8. A weight powered roller skate comprising two weight powered roller skate assembly in claim 5, the front one with wheel in front of the engine assembly and the rear one with wheel behind the engine assembly as shown in figure 5.
9. A weight powered roller blade comprising two weight powered roller skate assembly in claim 6, the front one with wheel in front of the engine assembly and the rear one with wheel behind the engine assembly as shown in figure 5